09/421,718

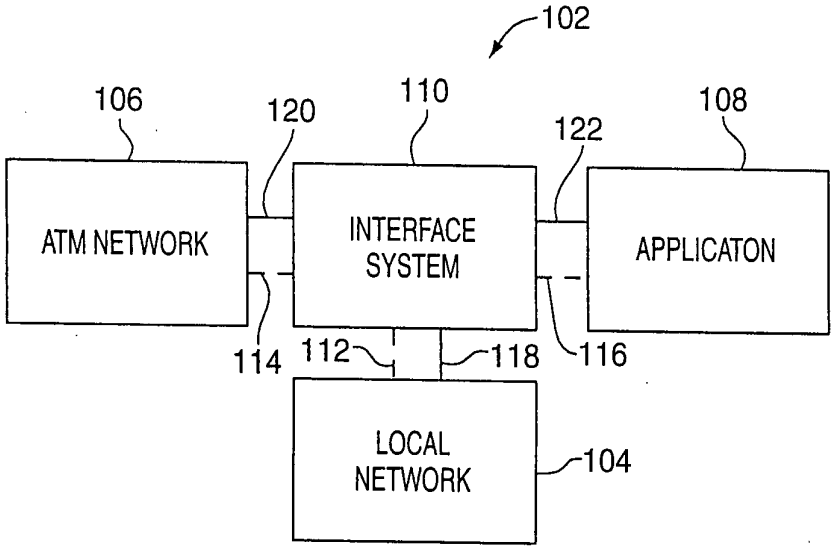

FIG. 1

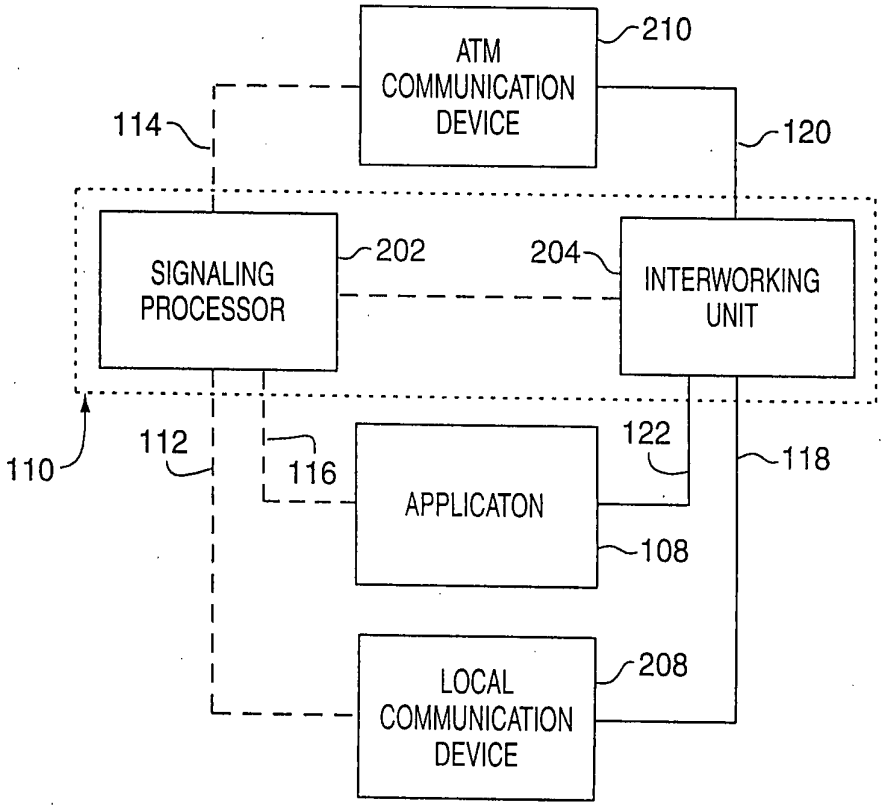

FIG. 2

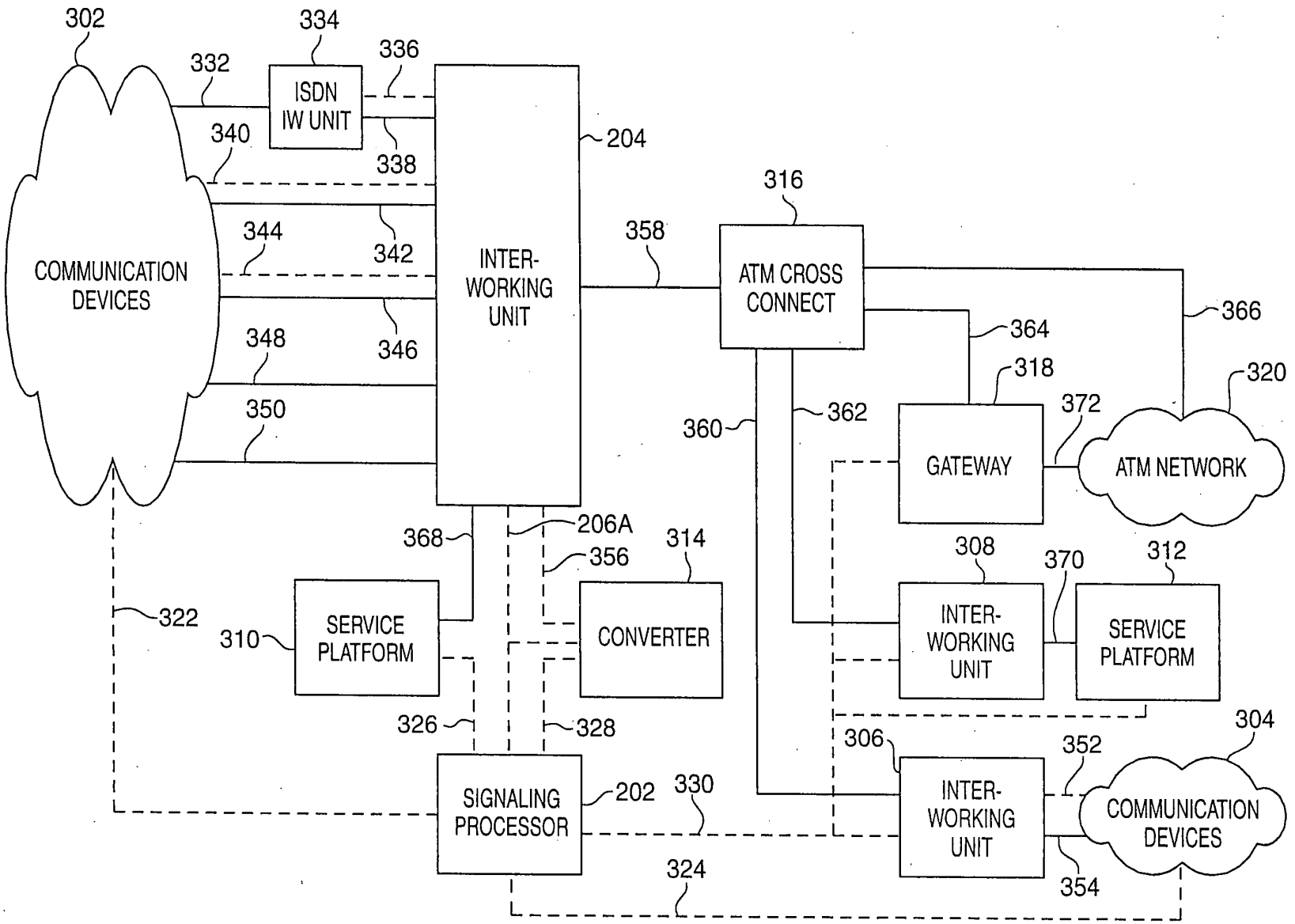
302
334
332
336
340
338
204
316
344
342
358
INTER-
WORKING
UNIT
ATM CROSS
CONNECT
COMMUNICATION
DEVICES
348
346
364
366
318
320
350
360
362
372
GATEWAY
ATM NETWORK
206A
368
314
356
308
370
312
322
310
SERVICE
PLATFORM
CONVERTER
INTER-
WORKING
UNIT
SERVICE
PLATFORM
326
328
304
306
352
SIGNALING
PROCESSOR
202
330
INTER-
WORKING
UNIT
COMMUNICATION
DEVICES
324
354

FIG. 3

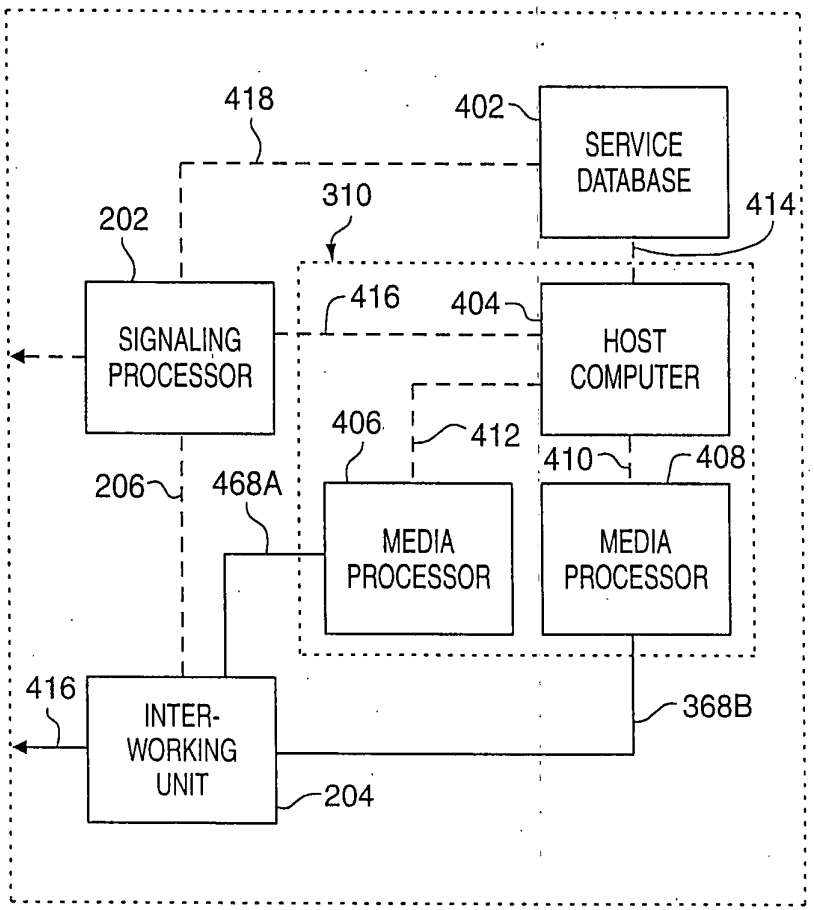
418
402
SERVICE DATABASE
310
414
202
416
404
SIGNALING PROCESSOR
HOST COMPUTER
406
412
410
408
206
468A
MEDIA PROCESSOR
MEDIA PROCESSOR
416
368B
INTER-WORKING UNIT
204

FIG. 4

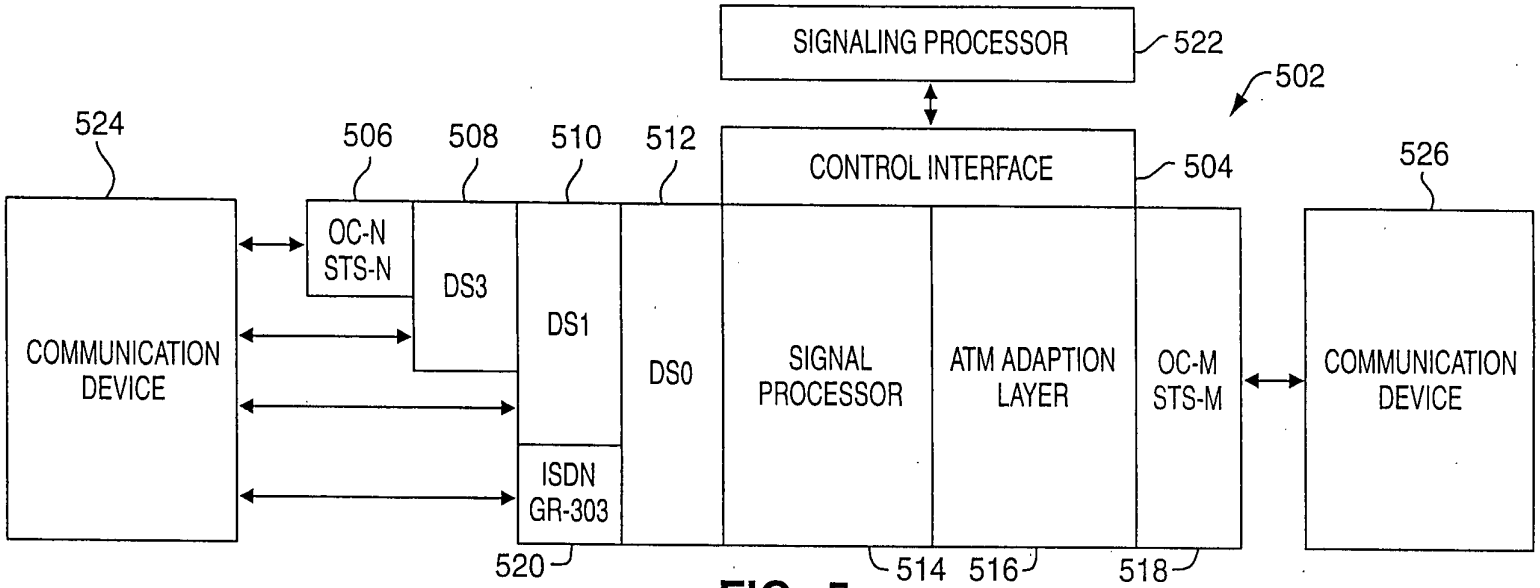
SIGNALING PROCESSOR
522
502
524
506
508
510
512
CONTROL INTERFACE
504
526
OC-N
STS-N
DS3
DS1
DS0
SIGNAL
PROCESSOR
ATM ADAPTION
LAYER
OC-M
STS-M
COMMUNICATION
DEVICE
COMMUNICATION
DEVICE
ISDN
GR-303
520
514
516
518

FIG. 5

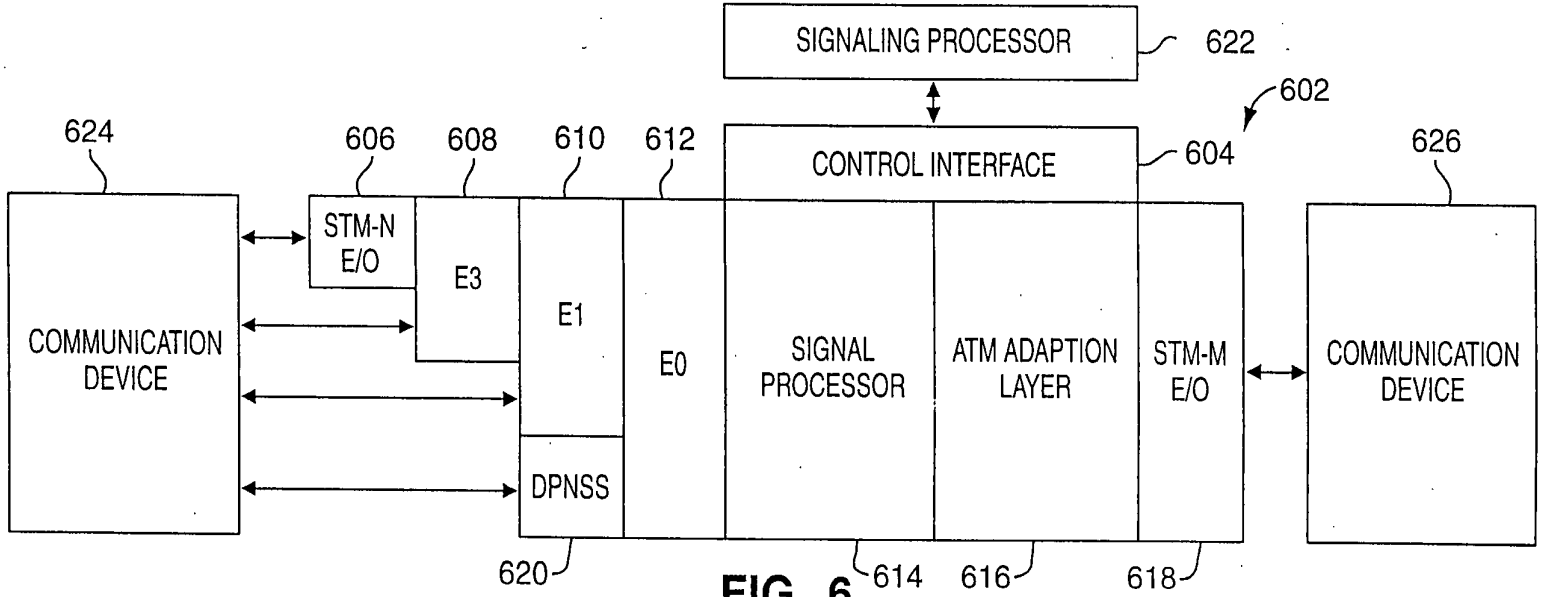
SIGNALING PROCESSOR
622
602
624
606
608
610
612
CONTROL INTERFACE
604
626
STM-N
E/O
E3
E1
E0
SIGNAL
PROCESSOR
ATM ADAPTION
LAYER
STM-M
E/O
COMMUNICATION
DEVICE
COMMUNICATION
DEVICE
DPNSS
620
614
616
618

FIG. 6

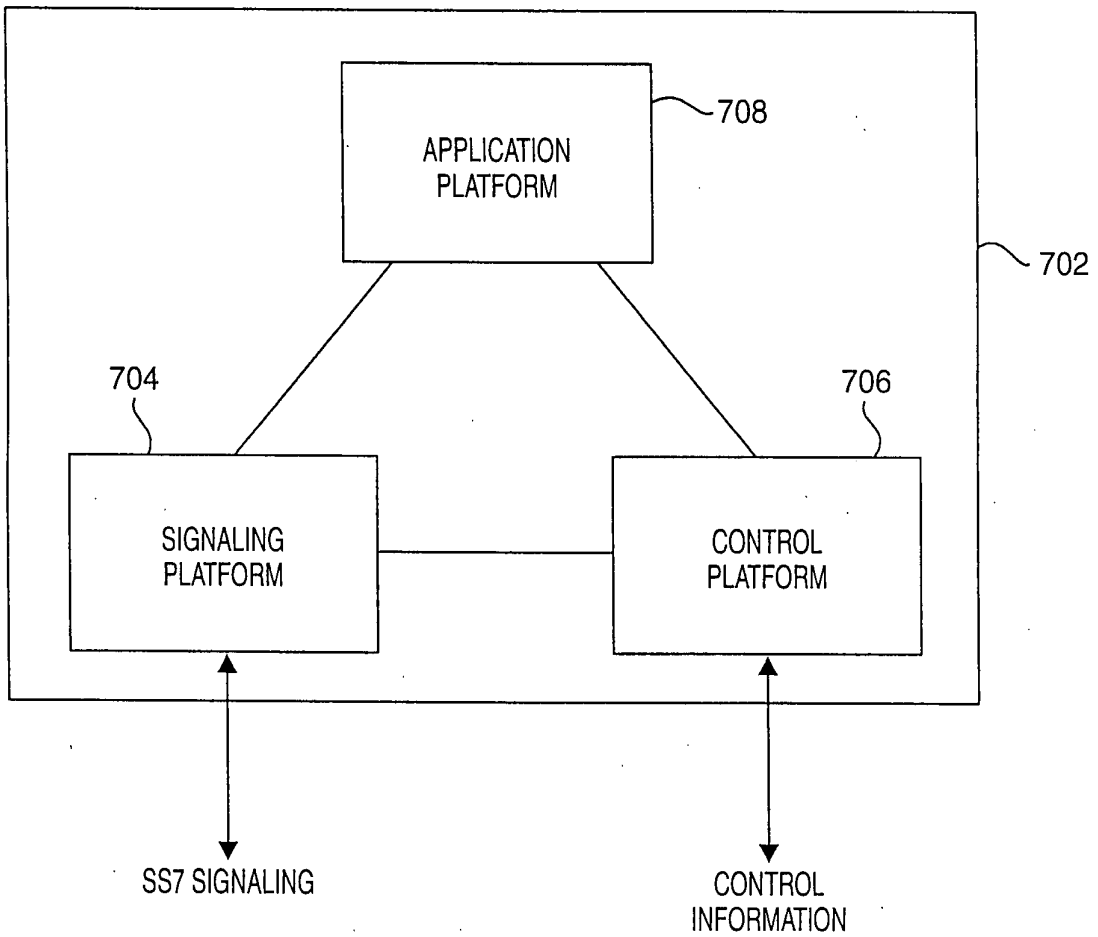
APPLICATION PLATFORM
708
702
704
706
SIGNALING PLATFORM
CONTROL PLATFORM
SS7 SIGNALING
CONTROL INFORMATION

FIG. 7

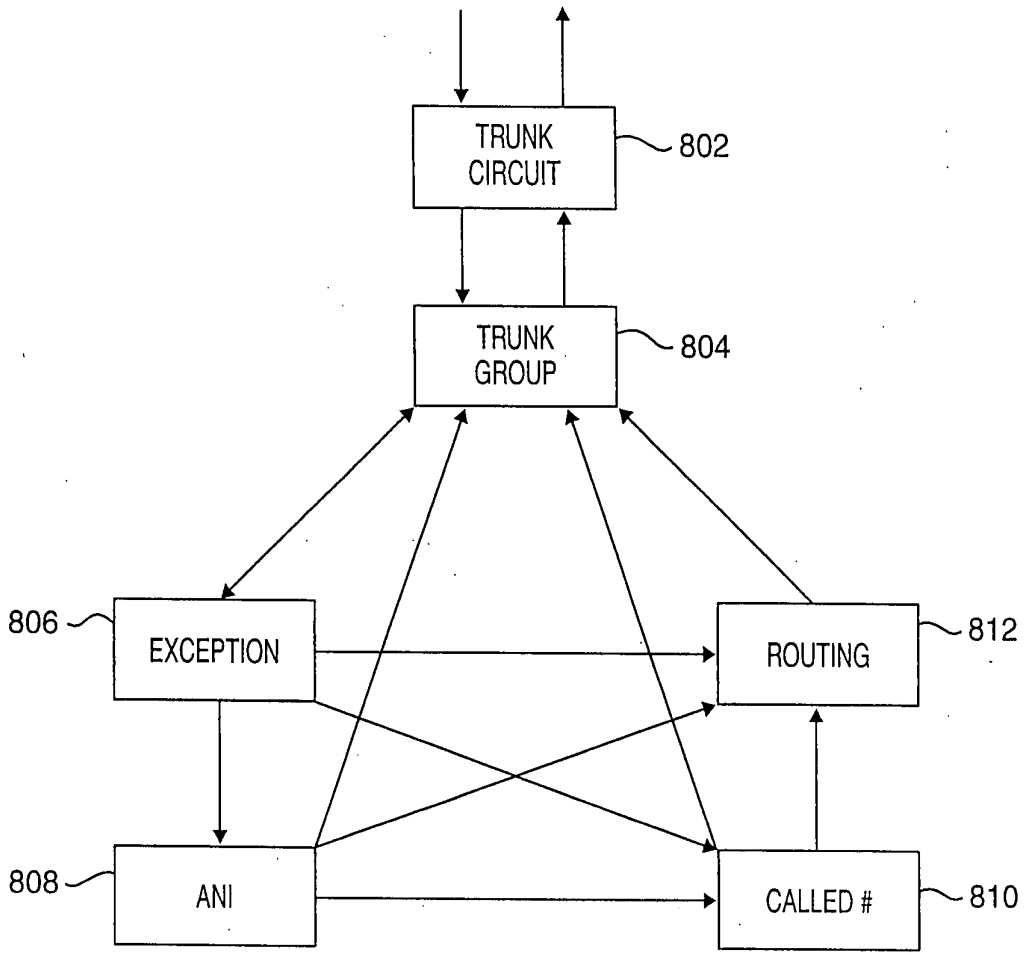
TRUNK CIRCUIT
802
TRUNK GROUP
804
806
EXCEPTION
ROUTING
812
808
ANI
CALLED #
810

FIG. 8

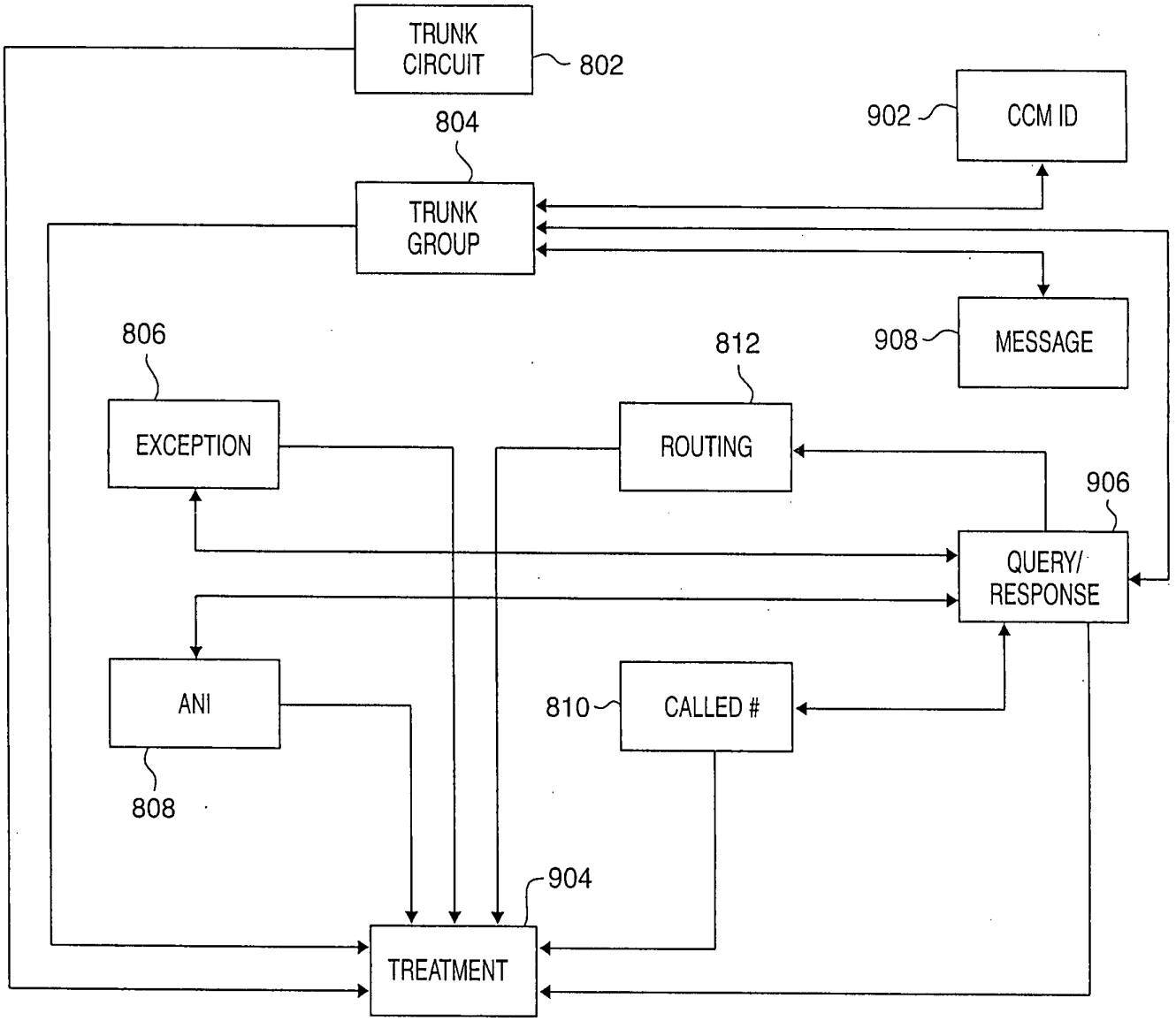
TRUNK CIRCUIT
802
804
TRUNK GROUP
902
CCM ID
908
MESSAGE
806
EXCEPTION
812
ROUTING
906
QUERY/ RESPONSE
ANI
808
810
CALLED #
904
TREATMENT

FIG. 9

ASSOCIATED POINT CODE	CIC	VP	VC	TRUNK GROUP NUMBER	GROUP MEMBER NUMBER	HARDWARE IDENTIFIER	ECHO CANCELER	ECHO CONTROL	SATELLITE INDICATOR	CIRCUIT STATUS	CIRCUIT STATE	TIME/ DATE

FIG. 10

TRUNK GROUP NUMBER	GLARE RESOLUTION	CONTINUITY CONTROL	CLLI	SATELLITE TRUNK GROUP	SERVICE INDICATOR	ASSOCIATED NPA	SELECTION SEQUENCE	HOP COUNTER	ACC ACTIVE	OMI	NEXT FUNCTION	INDEX

FIG. 11

EXCEPTION TABLE INDEX	CARRIER SELECTION IDENTIFICATION	CARRIER IDENTIFICATION	CALLED PARTY			NEXT FUNCTION	INDEX
			NATURE OF ADDRESS	DIGITS FROM	DIGITS TO		

FIG. 12

ANI TABLE INDEX	CALLING PARTY CATEGORY	NATURE OF ADDRESS	CALLING PARTY/CHARGE NUMBER			ORIGINATING LINE INFORMATION	NEXT FUNCTION	NEXT INDEX
			DIGITS FROM	DIGITS TO	DATA			

FIG. 13

CALLED NUMBER TABLE INDEX	NATURE OF ADDRESS	DIGITS FROM	DIGITS TO	NEXT FUNCTION	NEXT INDEX

FIG. 14

ROUTING TABLE INDEX	TRANSIT NETWORK SELECTION			CIRCUIT CODE	NEXT FUNCTION #1	INDEX #1	NEXT FUNCTION #2	INDEX #2	NEXT FUNCTION #3	INDEX #3
	NETWORK IDENTIFICATION PLAN	DIGITS FROM	DIGITS TO							

FIG. 15

INDEX	MESSAGE RECEIVED CAUSE VALUE	GENERAL LOCATION	CODING STANDARD	CAUSE VALUE	NEXT FUNCTION	INDEX

FIG. 16

MESSAGE TYPE	PARAMETERS	INDEX #1	INDEX # . . .	INDEX #N
ADDRESS COMPLETE	BACKWARD CALL INDICATOR			
	ACCESS TRANSPORT			
	CAUSE INDICATOR			
	OPTIONAL BACKWARD CALL			
	INDICATORS			
	OPTIONAL "FE" INDICATOR			
ANSWER	ACCESS TRANSPORT			
	BACKWARD CALL INDICATOR			
CALL PROGRESS	EVENT INFORMATION			
	BACKWARD CALL INDICATOR			
	ACCESS TRANSPORT			
	CAUSE INDICATOR			
	OPTIONAL BACKWARD CALL INDICATOR			
CIRCUIT RESERVATION	NATURE OF CONNECTION INDICATOR			
CIRCUIT RESERVATION ACK	N/A			
CONFUSION	N/A			
CONTINUITY	CONTINUITY INDICATOR			
EXIT	OUTGOING TRUNK GROUP NUMBER			
INFORMATION	ALL PARAMETERS			
INFORMATION REQUEST	ALL PARAMETERS			
INITIAL ADDRESS	NATURE OF CONNECTION INDICATOR			
	FORWARD CALL INDICATOR			
	CALLING PARTY'S CATEGORY			
	USER SERVICE INFORMATION			
	CALLED PARTY NUMBER			
	ACCESS TRANSPORT			
	CALLING PARTY NUMBER			
	CARRIER IDENTIFICATION			
	CARRIER SELECTION INFORMATION			
	CHARGE NUMBER			
	GENERIC ADDRESS			
	ORIGINATING LINE INFORMATION			
	ORIGINAL CALLED NUMBER			
	REDIRECTING NUMBER			
	SERVICE CODE			
	TRANSIT NETWORK SELECTION			
	HOP COUNTER			
PASS ALONG	ALL PARAMETERS			
RELEASE	CAUSE INDICATOR			
	ACCESS TRANSPORT			
	AUTOMATIC CONGESTION CONTROL			
RELEASE COMPLETE	N/A			
RESUME	SUSPEND/RESUME INDICATOR			
SUSPEND	SUSPEND/RESUME INDICATOR			

FIG. 17